

**AFRICA SYNOPTIC DISCUSSION – AFRICA DESK  
NWS CLIMATE PREDICTION CENTER CAMP SPRINGS MD  
1400 00 EDT JUN 19 2006**

**I SYNOPSIS (JUNE 19/0000UTC) ...** High pressure (1020hPa) is observed over Mediterranean Sea and northern Tunisia, Libya and northern Mali. The St Helena High indicated by 1027hPa at 30°S and 05°E extends a big ridge over South Africa, Angola, Botswana and Namibia.

- The tropical lows indicated by 1009hPa are centered over Mali and Niger, and 1008hPa over Chad.
- The ITD is located at 13°N/16°W, 13°N/10°W, 19°N/00°, 14°N/10°E and 15°N/20°E.
- The monsoon flow at 850hPa covered Ghana, Togo, Benin, Nigeria, Cameroon, Central African Republic and southern Chad.
- Three vortices are located respectively over central Ghana/Togo, central Mali, and southern Chad. GFS shows a fourth vortex over northern Niger.
- The METEOSAT imagery at 1200 UTC shows shallow convection over northern Nigeria, along the coast of Togo/Benin/Ghana and along the coast of Liberia/Sierra Leone. Some isolated cumulus clouds hang over an area spanning from southern Chad to Senegal.
- At 700hPa, the easterly flow is perturbed by a northern flow over eastern Mali and southern Mauritania.
- At 500hPa, an easterly flow (30KTS) is also quite evident. A tiny undulation is observed over Chad and Central African Republic
- At 200hPa, the easterly flow is maintained.

**II EVOLUTION for T+24, 48, 72 Hours**

- The high observed over Mediterranean Sea and northern Africa will disappear and the lows over Sahel will increase.
- At T+24, The ITD will be located at: 13°N-16°W, 15°N-10°W, 18°N-00°, 14°N-10E, 15°N-20E.
- At T+48, The ITD will be located at: 17°N-16°W, 17°N-10°W, 20°N-00°, 15°N-10E, 15°N-20E.
- At T+72, The ITD will be located at: 16°N-16°W, 16°N-10°W, 18°N-00°, 18°N-10E, 14°N-20E.
- The tropical low indicated by 1005-1007hPa will be located over Niger, Mauritania and Mali.
- At T+24, three vortices will develop respectively over southern Chad, northern Niger and along the coast of Liberia.
- At T+48, three vortices will develop respectively along the coast of Guinea/Sierra Leone, over eastern Niger and eastern Chad.
- At T+72 four vortices will develop respectively along the coast of Senegal, over southern Mauritania, northern Benin and eastern Chad.
- At 850mb, a north/east flow will be observed over Guinea, Sierra Leone/Liberia Senegal and Ghana/Cote d'Ivoire.
- The 700hPa easterly flow will exhibit a tiny undulation over Nigeria/Benin and Cote d'Ivoire/Ghana. A low shows by UKMET model is axed northern CAR/Central Cameroon.

**III FORECAST**

**At T + 24:**

- Local thunderstorms and rain may develop over the area spanning from southern Chad to coast of Guinea.
- Moderate dust or Haze will be expected over the northern Chad, Niger, Mali and Mauritania.

**At T+48:**

- Isolated thunderstorms with light rains will affect Guinea, southern Niger and the countries of Guinea gulf.

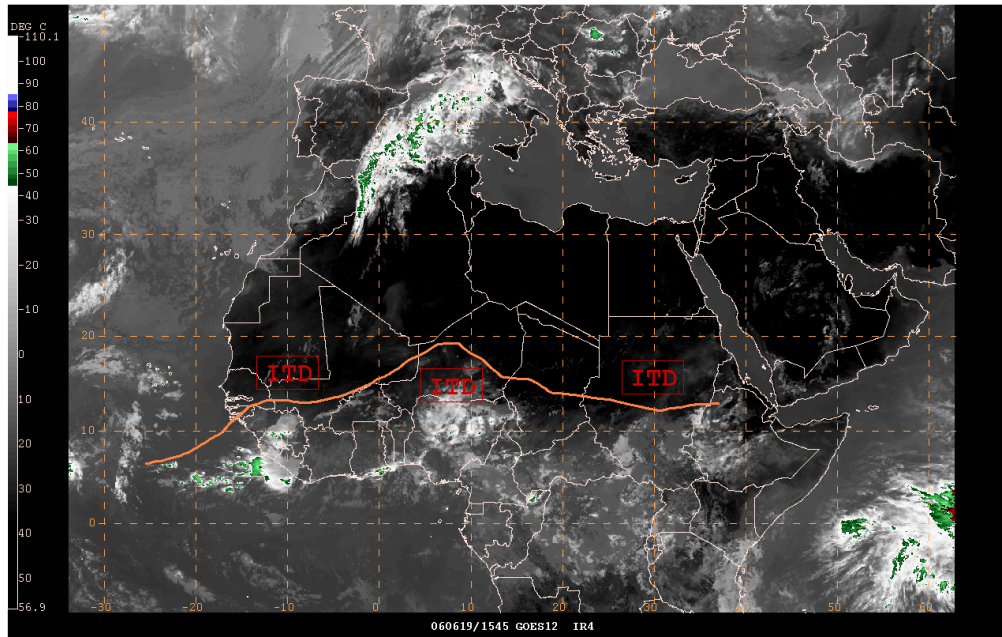
**At T + 72:**

- Deep convection associated with rains will occur over southern Cameroon and CAR, along the coast of Senegal, eastern Mali, southern Chad and northern Nigeria.

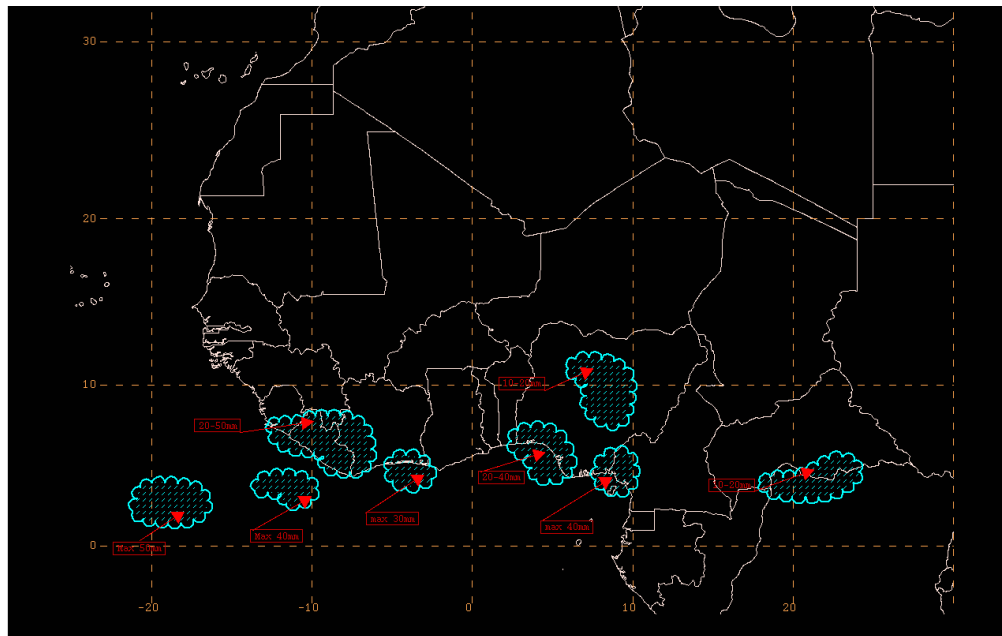
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**Position of the ITD for  
June 19, 2006 with 0000TU**



**Total Precipitation over West Africa (GFS Model)  
Valid June 20<sup>th</sup> to 21<sup>th</sup> at 1800TU**



**Diagnostic of the models:**

**GFS:**

**ECMWF:**

**UKMET:**